AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows.

Please cancel claims 1-38 as follows:

1. (Canceled) A method of delivering cryogenic energy to a selected location along an annular surface of an intervertebral disc comprising:

inserting a cryoprobe into the disc through an opening within said disc, wherein said cryoprobe has a thermally transmissive region for transferring cryogenic energy to the selected location;

advancing said cryoprobe within said disc;

arcing said cryoprobe around a portion of an interior aspect

of an annular lamella defining the annular surface; and

delivering the cryogenic energy to said selected location.

- 2. (Canceled) The method of claim 1, wherein said cryoprobe is blunt-tipped and flexible.
 - 3. (Canceled) The method of claim 1, wherein said opening

is an iatrogenic hole.

- 4. (Canceled) The method of claim 1, wherein said thermally transmissive region is located at or near the distal tip of said cryoprobe.
- 5. (Canceled) The method of claim 1, further comprising delivering a coolant to the thermally transmissive region.
- 6. (Canceled) The method of claim 5, wherein said coolant is selected from the group consisting of: a refrigerated liquid, an expanding gas, and a vaporizing liquid.
- 7. (Canceled) The method of claim 5, wherein said coolant is selected from the group consisting of: HCF's, CFC's, chlorodifluoromethane, polydimethylsiloxane, ethyl alcohol, liquid nitrogen, pentafluoroethane, nitrous oxide and carbon dioxide.
- 8. (Canceled) A method of hypothermically treating selected tissue of an intervertebral disc annulus comprising: inserting a needle into the annulus through an opening,

wherein said needle has a thermally transmissive region in communication with an external refrigeration device for providing cryogenic energy,

advancing the needle between annular lamellae to a location adjacent the selected tissue along the circumference defined by the lamellae; and

applying cryogenic energy to the selected tissue.

- 9. (Canceled) The method of claim 8, wherein said needle is an elongated hypothermia needle with a distal sharpened tip.
- 10. (Canceled) The method of claim 8, wherein said opening is an iatrogenic hole.
- 11. (Canceled) The method of claim 8, wherein said opening is formed by the advancement of said tip.
- 12. (Canceled) The method of claim 8, further comprising delivering a coolant to the thermally transmissive region.
- 13. (Canceled) The method of claim 12, wherein said coolant is selected from the group consisting of: a refrigerated liquid,

an expanding gas, and a vaporizing liquid.

- 14. (Canceled) The method of claim 12, wherein said coolant is selected from the group consisting of: HCF's, CFC's, chlorodifluoromethane, polydimethylsiloxane, ethyl alcohol, liquid nitrogen, pentafluoroethane, nitrous oxide and carbon dioxide.
- 15. (Canceled) A method of hypothermically treating selected tissue of a vertebral body comprising:

inserting a hypothermia instrument into the vertebral body though an opening, wherein said instrument has a thermally transmissive region in communication with an external refrigeration device for providing a therapeutic temperature;

advancing the thermally transmissive region within the vertebral body; and

activating said external refrigeration device, thereby cooling the thermally transmissive region and adjacent vertebral body tissue.

16. (Canceled) The method of claim 15, wherein said instrument is a hypothermia needle with a distal sharpened tip or

a blunt-tipped flexible cryoprobe.

- 17. (Canceled) The method of claim 15, wherein said opening is an iatrogenic hole.
- 18. (Canceled) The method of claim 15, wherein said opening is created by drilling a hole into the bony section of the vertebral body.
- 19. (Canceled) The method of claim 15, wherein said thermally transmissive region is cooled to a temperature in the range of 0° F. to 98.5° F.
- 20. (Canceled) The method of claim 15, wherein said thermally transmissive region is cooled for one or more time periods in the range of 1 minute to 60 minutes.
- 21. (Canceled) The method of claim 15, further comprising delivering a coolant to the thermally transmissive region.
- 22. (Canceled) The method of claim 21, wherein said coolant is selected from the group consisting of a: refrigerated liquid,

an expanding gas, and a vaporizing liquid.

- 23. (Canceled) The method of claim 21, wherein said coolant is selected from the group consisting of: HCF's, CFC's, chlorodifluoromethane, polydimethylsiloxane, ethyl alcohol, liquid nitrogen, pentafluoroethane, nitrous oxide and carbon dioxide.
- 24. (Canceled) A method of hypothermically treating selected tissue of a vertebral body comprising:

inserting a cryoprobe into the vertebral body through an opening in said body, wherein said probe has a thermally transmissive region for presenting hypothermic temperatures located proximate to the distal tip;

advancing the cryoprobe within said body; arcing said cryoprobe around an interior of the body; and delivering the cryogenic energy to said selected tissue.

- 25. (Canceled) The method of claim 24, wherein said cryoprobe is blunt-tipped and flexible.
 - 26. (Canceled) The method of claim 24, wherein said opening

is an iatrogenic hole.

- 27. (Canceled) The method of claim 24, wherein the thermally transmissive region is placed adjacent to the tissue within the body defining the superior endplate of a disc below said body.
- 28. (Canceled) The method of claim 24, wherein the thermally transmissive region is placed adjacent to the tissue within the body defining the inferior endplate of a disc above said body.
- 29. (Canceled) The method of claim 24, further comprising delivering a coolant to the thermally transmissive region.
- 30. (Canceled) The method of claim 29, wherein said coolant is selected from the group consisting of: a refrigerated liquid, an expanding gas, and a vaporizing liquid.
- 31. (Canceled) The method of claim 29, wherein said coolant is selected from the group consisting of: HCF's, CFC's, chlorodifluoromethane, polydimethylsiloxane, ethyl alcohol,

liquid nitrogen, pentafluoroethane, nitrous oxide and carbon dioxide.

32. (Canceled) A method of treating spinal pain by delivering cryogenic energy to a selected location on intervertebral disc comprising:

inserting a cryoprobe into the disc through an opening within said disc, wherein said cryoprobe has a thermally transmissive region for transferring cryogenic energy to the selected location;

advancing said cryoprobe within said disc; arcing said cryoprobe around a portion of said disc; and delivering the cryogenic energy to said selected location.

- 33. (Canceled) The method of claim 32, wherein said cryoprobe is blunt-tipped and flexible.
- 34. (Canceled) The method of claim 32, wherein said opening is an iatrogenic hole.
- 35. (Canceled) The method of claim 32, wherein said thermally transmissive region is located at or near the distal

tip of said cryoprobe.

- 36. (Canceled) The method of claim 32, further comprising delivering a coolant to the thermally transmissive region.
- 37. (Canceled) The method of claim 36, wherein said coolant is selected from the group consisting of: a refrigerated liquid, an expanding gas, and a vaporizing liquid.
- 38. (Canceled) The method of claim 36, wherein said coolant is selected from the group consisting of: HCF's, CFC'S, chlorodifluoromethane, polydimethylsiloxane, ethyl alcohol, liquid nitrogen, pentafluoroethane, nitrous oxide and carbon dioxide.
- 39. (Original) A method of delivering cryogenic energy within a vertebral body comprising:

forming a hole within the vertebral body;

inserting a cryoprobe into said body, wherein said cryoprobe has a distal tip and a thermally transmissive region located proximate to said tip;

activating said thermally transmissive region; and

delivering cryogenic energy for one or more time periods in the range of 1 minute to 60 minutes.